

A Study on the Binary mixtures of Propane and HFC-227ea

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Vapor-liquid equilibrium were measured for binary mixtures of propane + HFC-227ea at 273.15K, 283.15K, 293.15K, 303.15K, 313.15K and 323.15K in a circulation type equilibrium apparatus. The experimental data were correlated with the Peng-Robinson equation of state using the Wong-Sandler mixing rules (PRWS) within +/-1.0% deviation. Almost all the calculated values with this model give a good agreement with the experimental data and the binary systems of propane + HFC-227ea exhibit azeotropes.